



LIBRARY OF THE  
UNIVERSITY OF ILLINOIS  
AT URBANA-CHAMPAIGN

016.7114  
C73e  
no.495-509



01.710 ref. 4C

2732

# 495-509

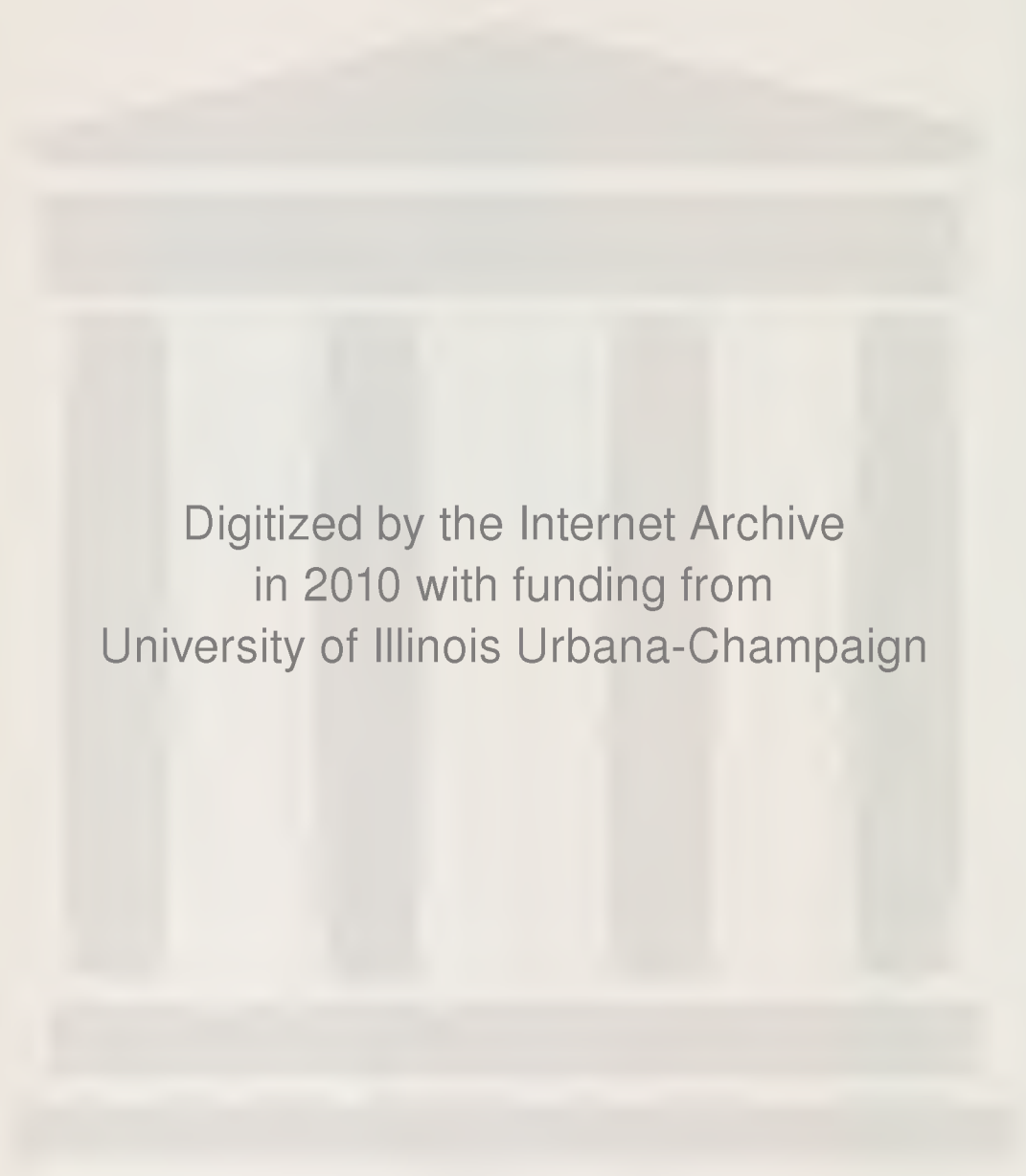
UNIVERSITY OF ILLINOIS LIBRARY

Name

Identification  
Number

Address

VIRA SACHAKUL  
NAT'L CLEARINGHOUSE  
DEPT. OF ARCH.  
SAC. SACHAKUL



Digitized by the Internet Archive  
in 2010 with funding from  
University of Illinois Urbana-Champaign

<http://www.archive.org/details/indooroutdoorspa502bart>





December 1973

502

---

**INDOOR AND OUTDOOR SPACE FOR CHILDREN IN NURSERY-  
KINDERGARTEN PROGRAMS**

Robert Bartholomew  
Department of Design and Environmental Analysis  
Cornell University

---

The Library of the  
JLC 3 1473  
University of Illinois  
at Urbana-Champaign

Mrs. Mary Vance, Editor  
Post Office Box 229  
Monticello, Illinois 61856





INDOOR AND OUTDOOR SPACE FOR CHILDREN  
IN NURSERY - KINDERGARTEN PROGRAMS

by

Robert Bartholomew  
Department of Design and Environmental Analysis  
Cornell University

INTRODUCTION

For the average child in the 3-6 age group, considerable time is spent in a group or institutional setting, such as day care centers, nursery schools, or kindergarten. Considerable publication has occurred in the past decade, spurred in part by the focus on Head Start and other child development programs, related to equipment, space and materials for child environments.

Increased emphasis has been placed on the importance of the early years in a child's life. Mothers are becoming dependent on day care as they enter the labor market, to the point that day care programs and school environments with satisfactory physical provisions are being recognized as an important social need.

The physical facilities of a day care or school setting are very basic to the program - providing opportunities for the program implementations. Implicit in the operation of good pre-schools are various principles and methods for selecting and organizing space and equipment for its operation.

Basic to the planning of a day care setting is the fact that it provides child supervision and instruction for a considerable length of time to groups of children. The curriculums, neighborhood settings, and resources vary considerably and have a direct bearing on the physical environment. State and federal regulations such as licensing requirements, fire and building codes have a strong influence as well on facilities design.

This physical space requirement includes outside space, such as playgrounds, whether or not it is connected with a school or day care center. There is a distinct movement away from conventional playgrounds with swings and slides to more varied activities that allow more child involvement and creative participation. Because of budget restrictions there has been an emphasis on the use of low cost "found" materials in constructing equipment that more closely accommodates the childrens' needs of jumping, digging, group play and so forth.

The important factor is defining the childrens' and staff needs and designing accordingly.

INDOOR SPACE

- Aaron, David and Bonnie P. Winawer. Child's Play: A Creative Approach to Playspace for Today's Children, New York: Harper and Row, 1965.
- Abramson, Paul. Schools for Early Childhood, New York: Educational Facilities Laboratories, 1970.
- Allen, Lady of Hartwood. Space for Play: The Youngest Children, Washington, D.C., 20009: National Association for the Education of Young Children, 1834 Connecticut Avenue, N.W.
- Allen, Lady of Hartwood, et. al., editors. Space for Play, Copenhagen: World Organization for Early Childhood Education, 1964.
- Appalachian Regional Commission. Programs for Infants and Young Children, Part IV: Facilities and Equipment, Washington, D.C.: Resources Information Center, 1970.
- Arnote, T. F. Variations in Amount of Indoor Play Space with Certain Physical Aggressive Contacts of Young Children in Group Settings, unpublished Doctoral Dissertation, University of North Carolina, Chapel Hill, North Carolina, 1969.
- Association for Childhood Education International. Equipment and Supplies, Washington, D.C., 1968.
- Association for Childhood Education International. Housing for Early Childhood Education: Centers for Growing and Learning, Washington, D.C.: Association for Childhood Education International, 3615 Wisconsin Avenue, N.W., 1968.
- Association for Childhood Education International. Nursery School Portfolio, Washington, D.C., 1968.
- Association for Childhood Education International. Space, Arrangement, Beauty in the School, Washington, D.C., 1958.
- Baker, Katherine Read, ed. Ideas that Work with Young Children, Washington, D.C.: NAEYC, 1972. (Section II: "Setting Up a Learning Environment," pp. 34-62.)
- Bank of America National Trust & Savings Association. "Day Nurseries for Preschoolers," Small Business Reporter, Vol. 8, No. 10, San Francisco, California, 94120, 8p.
- Bartholomew, R., et. al. Child Care Centers: Indoor Lighting, Outdoor Playspace, New York: Child Welfare League of America, p. 2973.
- Bartholomew, R., et. al. Child Care Facilities Planning, Ithaca, New York: Cornell University, College of Human Ecology, 1973.

- Bennett, Henry Eastman. School Posture and Seating, (A manual for teachers, physical directors and school officials.) Ginn and Company.
- Berson, Minnie P. and William W. Chase. "Planning Preschool Facilities," Early Childhood Education Rediscovered: Readings, ed. Joe L. Frost, New York: Holt, Rinehart and Winston, 1968, pp. 547-551.
- Beyer, Evelyn. Nursery School Settings: Invitation to What? Washington, D.C.: NAEYC, 1958.
- Birren, Faber. "The Problem of Colour in Schools," School and College, November 1960, pp. 646-647.
- Body, N. K. "Pattern of Aggression in the Nursery School," Child Development, Vol. 26, 1965, pp. 3-11.
- Boguslawski, Dorothy Beers. Guide for Establishing and Operating Day Care Centers for Young Children, New York: CWLA, April 1966. ("Housing for the Day Care Center," p. 25; "Equipment for the Day Care Center," p. 39; "Suggested Furnishings, Equipment, and Supplies," p. 79.)
- Bradley, Betty Hunt. "Responses of Retarded Children on Three and Two Dimensional Visual Tasks," Exceptional Children, November 1969, pp. 165-170.
- Brophy, Alice M. "Children's Centers...Three Decades of Progress," The Journal of Nursery Education, Vol. 19, No. 3, April 1964, p. 173.
- Brubeck, Thomas and A. Rorke Vanston. "Designing an Early World," American School and University, November 1972, pp. 28-30.
- Bruun, Ulla-Britta. Nursery Schools in Sweden, Stockholm: Swedish Institute, 1965.
- Burns, S. F. "Children Respond to Improvised Equipment," Young Children, Vol. 20, No. 1, October 1964, pp. 28-37.
- Caldwell, Bettye M. "What is the Optimal Learning Environment for the Young Child," in Chess and Thomas (eds.) Annual Progress in Child Psychiatry and Child Development, New York: Brunner/Mazel, 1968.
- Campbell, W. J. (ed.). Scholars in Context: The Effects of Environments on Learning, New York: Wiley, 1971.
- Cantor, Gordon M. and Sunnan K. Kubose. "Preschool Children's Ratings of Familiarized and Nonfamiliarized Visual Stimuli," Journal of Experimental Child Psychology, 1969, Vol. 8, pp. 74-81.



- Carini, Patricia F. and Louis Carini. "Concept of Extreme Size in Children," Perceptual and Motor Skills, Vol. 27, 1968, p. 634.
- Carpenter, Jane. "A Study of the Physical Characteristics of the Elementary Classroom in Relation to Teaching Efficiency," unpublished Master's Thesis, 1965.
- CCM School Materials, Inc. The Threshold Program and Materials for Early Learning Centers, 2124 West 82 Place, Chicago, Illinois, 60620, 1969, 128 p.
- Chase, William W. and Minnie P. Berson. "Planning Preschool Facilities," American Education, December-January 1966-1967, Washington, D.C.: Superintendent of Documents, U. S. Government Printing Office.
- Cherner, Norma. How to Build Children's Toys and Furniture, New York: McGraw-Hill Book Company, Inc., 1954.
- Child Welfare League of America. Standards for Day Care Service, "Building and Equipment of the Day Care Center," New York, 1969, Chapter 9.
- Child Welfare League of America. Guide for Establishing and Operating Day Care Centers for Young Children, New York, 1966.
- Corah, Norman. "The Influence of Some Stimulus Characteristics on Color and Form Perception in Nursery School Children," Child Development, Vol. 37, 1966, p. 205.
- Crowley, Mary Beaumont. "Educational Architecture," Encyclopedia Britannica, Vol. XIII, 1971.
- Davidoff, E. "Institutional Treatment of Children," Nervous Child, 1948, p. 7.
- Davis, Mary Dabner. "Schools for Children under Six," A report on the status and need for nursery schools and kindergartens. Bulletin, 1947, No. 5.
- Department of Education and Science-Architects and Building Branch. "Building for Nursery Education," Design Note 1, Curzon Street, London, W.1.
- Deutch, Martin, Nimmicht, et. al. Memorandum on Facilities for Early Childhood Education, New York, New York, 10022: Educational Facilities Laboratories, 477 Madison Avenue, 1966, 40p.
- Dixon, Hanna, John Hitch and Theresa Raper. Parent Child Center, Raleigh, North Carolina: Community Development Group, School of Design, North Carolina State University.

Dodd, D. and M. Lewis. "The Magnitude of the Orienting Response in Children as a Function of Changes in Color and Contour," Journal Exp. Child Psychol., Vol. 8, October 1969, pp. 296-305.

Education Development Center. Building with Tubes, Newton, Massachusetts, 1970.

Education Development Center. Building with Cardboard, Newton, Massachusetts, 1970.

Education, Office of. Functional Schools for Young Children, OE-21006, Special Publication No. 8, U. S. Department of Health, Education, and Welfare, 1961, 8lp. Washington, D.C.: Superintendent of Documents, U. S. Government Printing Office.

Educational Facilities Laboratories. Sound, Spaces and Equipment for Children's Centers, New York: Educational Facilities Laboratories, 1972.

Electric Heating Association. The Learning Place, New York, n.d.

Evans, E. Belle, Beth Shub and Marlene Weinstein. Day Care: How to Plan, Develop, and Operate a Day Care Center, Boston: Beacon Press, 1971.

Foote, Sarah. "A Nursery School Evolves in a Brand New Building," Journal of Nursery Education, Vol. 13, Spring 1958.

Franklin, Adele. Home Play and Play Equipment, Children's Bureau HEW, Publication No. 238, Washington, D.C., 1959.

Gaines, Rosslyn. "The Discriminability of Form Among Young Children," Journal of Experimental Psychology, Vol. 8, 1969, pp. 418-431.

Gardner, Dwayne E. and Minnie Berson. "Facilities for Comprehensive Kindergarten Programs," Towards Better Kindergartens, Washington, D.C.: ACEI, 1967, pp. 33-44.

Gilligan, M. C. The Effects of Varied Playground Space on Certain Behavioral Aspects of 4 and 5 Year Old Children, unpublished Doctoral Dissertation, N.Y.U., 1970.

Goldsmith, Cornelia and Ronald Haase. "The Living-Learning Physical Environment," Encyclopedia of Education, (ed. Deighton), New York: Macmillan, 1971.

Gordon, Ira J. Studying the Child in School, Chapter 4, "The Ecology of the Classroom, New York: John Wiley, 1966.

Gramza, A. F. "Preferences of Preschool Children for Enterable Play Boxes," Journal of Perceptual and Motor Skills, Vol. 31, 1970, pp. 177-178.

Gramza, A. F., J. Corush, and M. J. Ellis. Children's Play on Trestles Differing in Complexity: A Study of Play Equipment Design (submitted for publication), University of Illinois, Urbana, 1972.

- Gramza, A. F. and P. A. Witt. "Choices of Colored Blocks in the Play of Preschool Children," Perceptual and Motor Skills, Vol. 29, 1969, pp. 783-787.
- Green, Marjorie and Elizabeth Woods. A Nursery School Handbook for Teachers and Parents, Sierra Madre, California: Sierra Madre Nursery School Association.
- Gross, Ronald and Judith Murphy. Educational Change and Architectural Consequences, New York, New York, 10022: Educational Facilities Laboratories, Inc., 477 Madison Avenue, 1968, 88p.
- Haase, Ronald W. Designing the Child Development Center: Project Head Start Community Action Program, Washington, D.C.: Office of Economic Opportunity, U. S. Department of Health, Education, and Welfare, 1968, 23p.
- Hamlin, R. H., Rose Mukerji and Margaret Yonemura. Schools for Young Disadvantaged Children, New York: Teacher's College Press, Columbia University, 1967.
- Hanna, Dixon, John Hitch, and Theresa Rapier. "Parent-Child Center, Winston Salem," Design and Community, Alpaugh (ed.), Raleigh: School of Design, North Carolina State University, 1970.
- Harvard Educational Review. "Architecture and Education," Cambridge, Massachusetts, Vol. IV, No. 4, 1969.
- Herlowitz, Manfred, et. al. Thermal Environment of Educational Facilities, (a guide for planners and administrators), Syracuse, New York: Syracuse University Research Institute.
- Hermelen, B. and N. O'Connor. "Perceptual and Motor Discrimination in Psychotic and Normal Children," in Chess and Thomas (eds.) Annual Progress in Child Psychiatry and Child Development, New York: Brunnel/Mozel, 1968.
- Hill, Polly. Children's Creative Centre, Ottawa: Queen's Printer, 1967.
- Hill, Polly. "Children & Space," Habitat, Ottawa: Central Mortgage and Housing Corp., n.d.
- Hirshen and Ouye. The Design of Infant and Child Care Environments, San Francisco, California: Rosenberg Foundation, 1972.
- Holland, W. W., T. Halil and A. Elliot. "The Effect of Environmental Factors on Ventilatory Function in School Children," Aspen Emphasema Conference, Aspen, Colorado, Vol. 11, pp. 259-272.
- Holme, Anthea and Peter Massie. Children's Play: A Study of Needs and Opportunities, London: Michael Joseph Ltd., 1970.



Hunt, J. McVicker. "The Psychological Basis for Using Pre-School Enrichment as an Antidote for Cultural Deprivation," Merrill-Palmer Quarterly, pp. 210-243.

Interiors. "Revolution in Environments for Early Education," December 1970.

Johnson, H. W. "The Effect on Behavior of Variation in Amount of Play Equipment," Child Development, Vol. VI, 1935a, pp. 56-68.

Karlsson, K. A. "Research on Children's Play," Canadian Journal of Health, Physical Education and Recreation, 1971.

Kellogg, Rhoda. Nursery School Guide: Theory and Practice for Teachers and Parents, Boston: Houghton Mifflin Company, n.d.

KIPCO. From the Ground Up (Ideas for playground and indoor equipment to build for Community Head Start Program), Jackson, Mississippi, 1969.

Kohn, Sherwood. Early Learning Center: Profiles of Significant Schools, New York: Educational Facilities Laboratories, Inc., January 1970.

Kotchevar and Terrell. Food Service Planning, Layout and Equipment, Chicago, Illinois, 60610: National Restaurant Association, 1530 North Lake Shore Drive, 1961.

Kowatruhal, S. "Some Behaviors of Elementary School Children Related to Classroom Activities and Subject Areas," J. of Ed. Psych., Vol. 50, 1959, pp. 121-128.

Kritchevsky, Sybil. "Physical Settings in Day Care Centers: Teachers, Program and Space," Day Care, Vol. 2: Day Care As A Child-Rearing Environment, Washington, D.C.: NAEYC, 1972, pp. 258-445.

Kritchevsky, Sybil, Elizabeth Prescott and Lee Walling. Planning Environments for Young Children, Washington, D.C.: NAEYC, 1969.

LeCorbusier. Nursery Schools, New York: Orion Press, 1968.

Leeper, Sarah H., Ruth J. Dales, Dora S. Shipper and Ralph Witherspoon. Good Schools for Young Children, New York: Macmillan Company, 1968, 465p.

Leitman, Allan and Edith H.F. Churchill. A Classroom for Young Children: "Approximation No. I.", Newton, Massachusetts: Elementary Science Study, 1966.

Martens, R. and D. W. Kennedy. "Prediction of Social Behavior of Preschool Children While Playing in the Free Range," Internal Report Play Research Lab., University of Illinois, 1969.

Matterson, E. H. Play and Playthings for the Preschool Child, rev. ed., Baltimore: Penguin, 1967.

- Mazyck, Aurelia. "Suggested Equipment and Supplies for Infant -- Toddler Center," -- mimeographed pamphlet printed by University of North Carolina at Greensboro, 1969.
- McCabe, Mary Concepta. "Innovations in a Pediatric Unit," Hospital Progress, Vol. 51, June 1970, p. 26.
- Miller, William C. "Using Equipment, Materials and Facilities to Develop Humane Capabilities," To Nurture Humaneness (ed. Mary-Margaret Scobey) Washington, D.C.: ASCD, 1970, pp. 154-172.
- Murray, Russell. Research on Chronic Effects of Over-Crowding on Children, Scotland: Department of Psychology, University of Dundee, n.d.
- National Institute of Child Health and Human Development. Child Development and the Man-Made Environment, Bethesda, Maryland, 1971.
- NAEYC. Space for Play, The Youngest Children, New York: NAEYC, 104 East 25th Street, 1964, 56p.
- New York State Education Department. Equipment for Children in the Kindergarten, Albany, New York: Bureau of Child Development and Parents Education, 1966.
- New York State Education Department. Guide for Selection of Indoor and Outdoor Equipment and Materials, Albany, New York: Bureau of Child Development and Parent Education, 1966, 15p.
- New York State Division of Fire Safety. A Guide to Fire Safety Standards for Non-Public Schools, Albany, New York: New York State Division of Fire Safety, 155 Washington Avenue, 1967.
- Norum, Russo and Sommer. "Seating Patterns and Group Tasks," Psychology in the Schools, Vol. 4, 1967, pp. 276-280.
- Office of Economic Opportunity. Equipment and Supplies: Guidelines for Administrators and Teachers in Child Development Centers, Washington, D.C.: Office of Economic Opportunity, 1200 - 19th Street, N.W., 1965, 16p.
- Osmon, F. L. Patterns for Designing Children's Centers, New York: Educational Facilities Laboratories, 1971.
- Passantino, Richard J. "Swedish Preschools: Environments of Sensitivity," Childhood Education, May 1971.
- Pendred, Gladys E. Play Materials for Young Children, London: Melbourne University Press, 1964.
- Pfluger, Luther W. and Jessie M. Zola. "A Room Planned by Children," Young Children, Vol. XXIV, No. 6, 1969, pp. 337-341.
- Play Schools Association, Inc. Equipment List, New York: Play Schools Association, Inc., 120 West 57th Street, PL-78860.



- Plowden, Bridget. Children and Their Primary Schools, A report of the Central Advisory Council for Education (England), Volume 1, London: Her Majesty's Stationery Office.
- Poteat, Barbara W.S. and Robert C. Hulsebus. "The Vertical Dimension: A Significant Cue in the Pre-School Child's Concept of 'Bigger'," Psychon. Sci., Vol. 12, No. 8, 1968.
- Prescott, Elizabeth. Children in Group Day Care: The Effect of a Dual Child-Rearing Environment, Los Angeles: Research Department, Welfare Planning Counsel, L.A. Region, 1964.
- Prescott and Jones. Group Day Care as a Child Rearing Environment, Pasadena, California: Pacific Oaks College, 1967.
- Prescott, Elizabeth. "The Large Day Care Center as a Child-Rearing Environment," Voice, Vol. 2, No. 4, May 1970.
- Ralph, J. B., T. Thomas, S. Chess and S. J. Korn. "The Influence of Nursery School on Social Interactions," Chess and Thomas (eds.) Annual Progress in Child Psychiatry and Child Development, New York: Brenner/Masel, 1969.
- Rasmussen, Margaret. Play - Children's Business, Washington, D.C.: Association for Childhood Education International, 3615 Wisconsin Avenue, N.W., 1963, 40p.
- Rasusch, H. L., A. T. Dittman, and T. J. Taylor. "The Interpersonal Behavior of Children in Residential Treatment," J. Abnorm. Soc. Psych., Vol. 58, 1959, pp. 9-27.
- Rayner, Claire. For Children, London, S.W.1, England: MacDonald and Co., Ltd., The Design Centre, Haymarket, 1967, 64p.
- Read, Katherine H. The Nursery School: A Human Relationships Laboratory, Philadelphia: Saunders, 1971.
- Richardson, Elizabeth. "The Physical Setting and its Influence," Environmental Psychology (in Proshansky, Ittelson, Rivlin), New York: Holt, 1970, pp. 386-397.
- Robertshaw, R. and B. W. Powell. "Children in Intensive Care Units," British Medical Journal, April 25, 1970.
- Roeper, Annemarie. Preliminary Outline of Life in the Domes, Bloomfield Hills, Michigan: Roeper City and Country School, Inc., August 1969.
- Roeper, Annemarie. Planning Tomorrow's Nursery School Structures, Bloomfield Hills, Michigan: Roeper City and Country School, Inc., December 1965, 10p.
- Santa Monica Children's Centers, Santa Monica, California. Low-Cost Day Care Facilities for Children of Working Mothers, Washington, D.C.: Superintendent of Documents, U. S. Government Printing Office.

- Shure, M. B. "Psychological Ecology of a Nursery School," Child Development, Vol. XXXIV, December 1963, pp. 979-992.
- Stanton, Jessie and Marguerita Rudolph. Planning a Nursery School Building, New York: Bank Street Publications.
- Stevenson, John, B.Sc.Arch. "Building a Home for Children," Child Welfare, February 1962.
- Stone Mountain Educational Projects. Pre-School Equipment, Conway, Massachusetts: Stone Mountain Educational Projects, n.d.
- Sunderlein, Sylvia. Bits and Pieces -- Imaginative Uses for Children's Learning, Washington, D.C.: Association for Childhood Education International, Bulletin 20-A, 1967, 70p.
- Sunderlein, Sylvia. Equipment and Supplies Tested and Approved for Preschool/Home/School, Washington, D.C.: Association for Childhood Education International, Bulletin 39, 1967.
- Texas Education Agency. Guidelines for Planning Preschool Programs for Educationally Deprived Children (Title I of the Elementary and Secondary Education Act of 1965). Bethesda, Maryland, 20014: Educational Resources Information Center, 4936 Fairmont Avenue, 1967, 16p.
- Todd, Vivian Edmiston. The Years Before School: Guiding Pre-school Children, London: The MacMillan Company, Collier-MacMillan Limited, 2nd edition, 1970, 671p.
- Tolor, Alexander. "Psychological Distance in Disturbed and Normal Children," Psychological Reports, Vol. 23, 1968, pp. 695-701.
- Tolor, Alexander and Susan Orange. "An Attempt to Measure Psychological Distance in Advantaged and Disadvantaged Children," Child Development, Vol. 40, 1969, pp. 407-420.
- Trustees of Casady School. The Prepared Environment and Its Relationship to Learning, Oklahoma City, Oklahoma: Trustees of Casady School, 1969.
- Tonigan, Richard, et. al. The British Infant School (Idea's Early Childhood Series), Melbourne, Florida, 32901: Institute for Development of Educational Activities, Inc., P. O. Box 446, 1969.
- Tonigan, Richard, et. al. Child Care and Development Centers, Model Neighborhoods, Albuquerque, New Mexico, or Mr. Architect! This is How We Want our Centers to Perform, Albuquerque, New Mexico: Institute for Social Research and Development, University of New Mexico, 1970, 59p.

- Tonigan, Richard, et. al. Housing for Early Childhood Education, Washington, D.C., 20016: Association for Childhood Education International, 3615 Wisconsin Avenue, 1968, 84p.
- Tonigan, Richard, et. al. Kitchen Equipment Guide for Child Service Institutions, Washington, D.C.: U. S. Department of Agriculture, Consumer and Marketing Service, School Lunch Division, 13p.
- Tonigan, Richard, et. al. Planning and Development of Facilities for Pre-Primary Education, Athens, Georgia: Bureau of Education Studies and Field Services, University of Georgia, May 1969.
- Tonigan, Richard, et. al. Space, Arrangement, Beauty in School, Washington, D.C.: Association for Childhood Education International, Bulletin 102, 1958, 52p.
- Updegraff, R. and E. K. Herbst. "An Experimental Study of the Social Behavior Stimulated in Young Children by Certain Play Materials," Journal of Genetic Psychology, Vol. LXII, 1933.
- United Community Services of Metropolitan Detroit. Day Care and Nursery Facilities: A Study of Use and Problems, Detroit, Michigan, 1969.
- U. S. Department of Agriculture. Layout Equipment, and Work Methods for School Lunch Kitchens and Serving Lines, Marketing Research Report No. 753, Washington, D.C.: U. S. Government Printing Office, 1966.
- Waechter, H. and E. Waechter. Schools for the Very Young, (An Architectural Record Book), New York: F. W. Dodge Corp., 1951.
- Warner, Diane and Jeanne Quill. Beautiful Junk, Project Head Start, Washington, D.C.: Office of Economic Opportunity, 1967, 12p.
- Weberm, Evelyn and Lucy P. Martin, editors. Equipment and Supplies, Washington, D.C.: Association for Childhood Education International, 1964.
- Wills, Clarice Dechant. "Kindergarten for Today's Children," Chicago: Follett Publishing Company.
- Young Children (formerly Journal of Nursery Education). "Planning Nursery School Premises and Facilities," Vol. 19, No. 3, Washington, D.C.: NAEYC, April 1964.
- Zola, Jessie and Luther W. Huger. "A Room Planned by Children," Young Children, September 1969.



CUTCOR SPACES AND PHYSICAL ENVIRONMENTS

- Aaron, David and Bonnie P. Winawer. Child's Play: A Creative Approach to Playspaces for Today's Children, New York: Harper and Row, 1965, 160p.
- Abernathy, W. D. Playgrounds, London: National Playing Fields Association.
- ACEI. Playgrounds for City Children, 1969, 56p. \$1.50.
- Ackermans, E. "The Vicinity of the Home Used as a Play Area," (Wolters-Noordhoff nr Groningen 1970), Wassenaarseweg 56, Leiden, Holland: Dutch Institute for Preventive Medicine, TNO.
- Agriculture, U. S. Department of. Kitchen Equipment Guide for Child Service Institutions, Washington, D.C.: Consumer and Marketing Service, School Lunch Division, 13p.
- Agriculture, U. S. Department of. Outdoor Classrooms on School Sites, Washington, D.C.: U. S. Government Printing Office, 1972.
- Allen, Lady of Hartwood. Planning for Play, Cambridge, Massachusetts: The MIT Press, 1968, 144p.
- Appleyard, D. "Experiments in Open Space," Connection, Harvard Visual Aids, 1967.
- Appleyard, D. Bits and Pieces: Imaginative Uses for Children's Learnings, Washington, D.C.: Association for Childhood Education International, 1967.
- Baker, Katherine Read. Let's Play Outdoors, New York: National Association for the Education of Young Children, 1966.
- Bengtson, Arvid. Environmental Planning for Children's Play, New York: Praeger Publishers, 1970.
- Blair, Brent and Mark Francis. "Kids as Designers," Landmark, University of California, p. 35.
- Bureau of Outdoor Recreation. Outdoor Recreation Planning for the Handicapped, Washington, D.C.: Superintendent of Documents, U. S. Government Printing Office, 1967.
- Butler, George D. The New Play Areas, New York, 1938.
- Dattner, Richard. Design for Play, New York: Van Nostrand Reinhold, 1969.
- Design Quarterly, "Children's Furniture," Minneapolis: Walker Art Center, Vol. 57, 1963.
- Dow, Mildred. "Playground Behavior Differentiating Artistic from Non-Artistic Children," Psych. Mono., Vol. 45, 1933, pp. 82-93.

- Education Development Center. Building with Tires, Newton, Massachusetts, 1971.
- Ellis, M. J. "The Rational Design of Playgrounds," Educational Product Report, Vol. 3, (8-9), May-June 1970, pp. 3-6.
- Ellis, S. "Design Considerations for Children's Play," Landmark '71, Berkeley: University of California, p. 69.
- Friedberg, M. Paul, with Ellen Perry Berkeley. Play and Interplay, New York: Macmillan, 1970.
- Friedberg, M. Paul. Playgrounds for City Children, Washington, D.C.: Association for Childhood Education International, 1969.
- Gilligan, M. C. "The Effects of Varied Playground Space on Certain Behavioral Aspects of 4 and 5 Year Old Children," unpublished Doctoral Dissertation, N.Y.U., 1970.
- Grey, Alexander. "Creative Learning in Children's Playgrounds," Childhood Education, Vol. 45, No. 9, May 1969, pp. 491-499.
- Hole, Vera. Children's Play on Housing Estates (National Building Studies Research Paper No. 39). London S.E.1, England: Her Majesty's Stationery Office, P. O. Box 569, 1966, 39p.
- Howell, Ruth. "Spring Comes to a City Nursery School Playground," Young Children, March 1968.
- Jacobs, Jane. "The Use of Sidewalks: Assimilating Children," (in: Proshansky, Ittelson, Rivlin) Environmental Psychology: Man and His Physical Setting, New York: Holt, Rinehart and Winston, 1970.
- Kidd, Aline and Robert. "The Head Start Classroom as a Therapeutic Environment," Young Children, January 1968.
- KIPCO. From the Ground Up, (Ideas for playground and indoor equipment to build for community Head Start Program), Jackson, Mississippi: KIPCO, 1969.
- Ledermann, Alfred and Alfred Trachsel. Creative Playgrounds and Recreation Centers, New York: Praeger Publishers, 1959.
- Ledermann, Alfred, Alfred Trachsel and Gustav Mugglin. "Playgrounds and Recreation Centers," Pro Juventute Publication, Zurich, 1964.
- Leitman, Allan, Henry Olds and Cornelia Voorhees. "Any Old Playground," Newton, Massachusetts: Education Development Center, 1968.
- Lipson, R. "A Mobile Preschool," Young Children, January 1969.

- London Adventure Playground Association. Notting Hill Adventure Playground, London.
- Moore, Robin. An Experiment in Playground Design, Cambridge, Massachusetts: M.A. Thesis in City Planning, November 1966, MIT.
- Mott, William Penn, Jr. Creative Playground Equipment, American Institute of Park Executives.
- NAEYC. Water, Sand and Mud as Play Materials, 1959.
- Recreation Com. Park Association of NYC. The Playground Review, New York: Recreation Com. Park Association of NYC, 15 Gramercy Park.
- Recreation Com. Park Association of NYC. New Ideas of City Playgrounds, New York: Recreation Com. Park Association of NYC, 15 Gramercy Park.
- Rosenblum, Cynthia. "Conflict Resolution at Codornices Park," Landmark, Berkeley: University of California, p. 63.
- Sharkey, Tony. Building a Playground, Newton, Massachusetts: Education Development Center, 1970.
- Sigsgaard, Jens. "The Playground in Modern Danish Housing," Danish Foreign Office Journal, No. 54, October 1965.
- Spivack, Mayer. "The Political Collapse of a Playground," Landscape Architecture, 1969.
- State Department of Education. Guides for the Selection of Indoor and Outdoor Equipment and Materials, Albany, 1967.
- State Department of Education. Indoor and Outdoor Spaces for Three and Four Year Old Children, Albany.
- Stone, Jeannette Galambos. Play and Playgrounds, Washington, D.C.: National Association for the Education of Young Children, 71p.
- Utzinger, Robert C. Early Childhood Facilities, Some European Nursery Schools and Playgrounds, New York: Educational Facilities Lab., 1970.
- Warner, Diane and Joanne Quill. Guide for Selection of Indoor and Outdoor Equipment and Materials, The State Education Department, Bureau of Child Development and Parent Education, Albany, New York, 15p.
- White, L. E. "The Outdoor Play of Children Living in Flats," Environmental Psychology, Proshansky, Ittelsohn and Rivlin, 1970, p. 370.

Wolf, James M. "Physical Facilities Guidelines for Handicapped  
Children: Fitting Facilities to the Child, Part Three,"  
School Management, December 1967, pp. 40-59.

---

COUNCIL OF PLANNING LIBRARIANS

Exchange Bibliography #502

INDOOR AND OUTDOOR SPACE FOR CHILDREN IN NURSERY - KINDERGARTEN  
PROGRAMS

Additional copies available from:

Council of Planning Librarians  
Post Office Box 229  
Monticello, Illinois, 61856

for \$1.50.













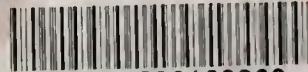






UNIVERSITY OF ILLINOIS-URBANA

016.7114C73E C001  
EXCHANGE BIBLIOGRAPHY. URBANA, ILL  
495-509 1973



3 0112 029109268